

X is not Z,

Y₁ and Y₂ are, independently from each other, CR₁R₂,

R₁ and R₂ are, independently from each other, H, C₁-C₄ alkyl, C₁-C₄ alkoxy or C₁-C₄ acyloxy,

i, j, and k are, independently from each other, an integer in the range from 1 to 10,

the total number of C atoms in Y₁ and Y₂, the C atoms of R₁ and R₂ not included, is in the range of 2 to 100,

Q is a hydrophilic atom or group selected from the group consisting of O, NH, C=O,

O-C=O and CR₃R₄,

R₃ and R₄ are, independently from each other, selected from the group consisting of H, OH, C₁-C₄ alkoxy and C₁-C₄ acyloxy, and

R₃ and R₄ are not H at the same time;

wherein when Q = NH, Z is not NH₂; and

wherein when k > 1, the Q's for each [(Y₁)_i-Q-(Y₂)_j]_k are independently selected from each other.

15. (Twice Amended) Process for the detection of a biomolecule which is a partner of a specifically interacting system of complementary binding partners, comprising the steps of:

- a) contacting a surface according to claim 10 with a sample suspected to contain the complementary binding partner,
- b) removing non-specifically bound sample components in a washing step, and

c) detecting specifically bound sample components.

16. (Amended) Process according to claim 15 wherein for said detecting, a colored, fluorescent, bioluminescent, chemoluminescent, phosphorescent or radioactive label; an enzyme; an antibody or a functional fragment or derivative thereof, a protein A/gold based system; a biotin/avidin/streptavidin based system; or an enzyme electrode based system is used.

17. (Twice Amended) Process for the isolation of a biomolecule which is a partner of a specifically interacting system of complementary binding partners, comprising the steps of:

- a) contacting a surface according to claim 10 with a sample suspected to contain the biomolecule complementary binding partner,
- b) removing non-specifically bound sample components in a washing step, and, optionally,
- c) eluting specifically bound sample components.

18. (Twice Amended) A method of affinity chromatography comprising the steps of : providing a surface according to claim 10 as an affinity matrix; and performing affinity chromatography with the affinity matrix.

19. (Twice Amended) A method of detecting a biomolecule comprising the steps of:
B's way providing a sensor chip or biochip comprising a surface according to claim 10 ; and
detecting a biomolecule with the sensor chip or biochip.

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